



## PATENT ABSTRACTS OF JAPAN

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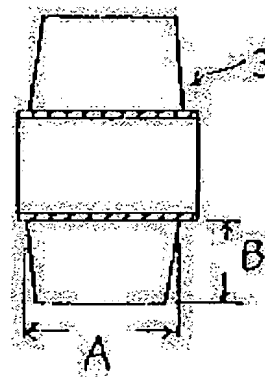
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### (54) POLYURETHANE ELASTIC YARN CHEESE

#### (57)Abstract:

**PURPOSE:** To ensure that a yarn is easily untwined from a cheese, that the cheese shape is retained fast, and that the adhesion works fast, by relating the apparent rate of elongation of the elastic system within a cheese to the amount of oil agent attachment in said elastic system with a certain specific relationship.

**CONSTITUTION:** An elastic cheese 3 of polyurethane has a wound amount of 1.5kg or more, and the ratio of the wound thickness B to the wound width A is set over 0.5. Here the apparent rate of elongation C(%) of the elastic system within the cheese is related to the amount of oil agent attachment D(wt%) of the elastic system as follows:  $D-5 \leq C \leq D+5$ ,  $D \leq 2$ . Here C shall be measured in different layers and parts of the elastic system of each cheese, wherein C in different parts can be defined as  $C(\%) = \{(\text{cheese wound upper circumference length}) - (\text{yarn length of elastic system in cheese after untwining and slackening})\} \times 100 / (\text{cheese wound upper circumference length})$ . This enables obtainment of a cheese particularly favorable to elastic material for paper diaper.



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